

CONTENTS

- | | |
|--|--|
| <i>P. S. Cho, K. L. Lindsley, J. G. Douglas,
K. J. Stelzer and T. W. Griffin</i> | 1 Digital radiotherapy simulator |
| <i>Y. Amano, K. Gemma, H. Kawamata and
T. Kumazaki</i> | 9 Intraluminal signal intensity of iliac artery stents
investigated by contrast-enhanced three-dimensional
MR angiography |
| <i>A. Butt, R. Acharya, C. Sibata and
K. H. Shin</i> | 13 Surface matching of multimodality image volumes by a
fuzzy elastic registration technique |
| <i>D. Okkalides</i> | 25 Assessment of commercial compression algorithms, of
the lossy DCT and lossless types, applied to diagnostic
digital image files |
| <i>J. Zhang and H. K. Huang</i> | 31 Multilevel adaptive process control of acquisition
and post-processing of computed radiographic images
in picture archiving and communication system environ-
ment |
| <i>N. Tomura, H. Hirano, R. Sashi,
M. Hashimoto, K. Kato, S. Takahashi,
O. Watanabe and J. Watarai</i> | 41 Comparison of MR imaging and CT in discriminating
tumor infiltration of bone and bone marrow in the skull
base |
| <i>J. D. Casas, A. Mariscal and
E. Barluenga</i> | 53 Scrotal cytocele: US and CT findings in two cases |
| <i>R. N. Sener</i> | 57 Lesions affecting the claustrum |
| <i>R. N. Sener</i> | 63 Cerebellar involvement in tuberous sclerosis |
| <i>N. Elmas, C. Çalli, R. Killi, A. Memis,
O. Oyar and A. Mentis</i> | 67 Partially thrombosed hepatic artery aneurysm mimick-
ing pancreatic head carcinoma |
| <i>R. N. Sener</i> | 71 Hereditary nephritis (Alport syndrome): MR imaging
findings in the brain |
| <i>H. Hirano, N. Tomura, J. Watarai
and T. Kato</i> | 73 Caudal regression syndrome: MR appearance |
| <i>R. Savas, C. Calli, N. Yünter and
H. Alper</i> | 77 Hypoplastic lumbar pedicle in association with con-
joined nerve root MRI demonstration |
| <i>A. S. Tu, Mai-Huong, T. Tran and
C. R. Larsen</i> | 81 CT-appearance of intraluminal duodenal diverticulum.
The halo sign |
| | 85 Announcements |

Volume 22 Number 2

1998

CONTENTS

SPECIAL ISSUE: BIOMEDICAL APPLICATIONS

Guest Editor: A. Del Bimbo

- | | |
|---|--|
| <i>A. Del Bimbo</i> | 87 Guest Editor's Introduction to Special Issue on 'Biomedical Applications' |
| <i>D. L. Farkas, C. Du, G. W. Fisher, C. Lau, W. Niu, E. S. Wachman and R. M. Levenson</i> | 89 Non-invasive image acquisition and advanced processing in optical bioimaging |
| <i>T. M. Buzug and J. Weese</i> | 103 Image registration for DSA quality enhancement |
| <i>R. Van de Walle, I. Lemahieu and E. Achten</i> | 115 Two motion-detection algorithms for projection-reconstruction magnetic resonance imaging: theory and experimental verification |
| <i>F. Bello, A. C. F. Colchester and S. A. Röhl</i> | 123 A geometry- and intensity-based partial volume correction for MRI volumetric studies |
| <i>A. Neumann and C. Lorenz</i> | 133 Statistical shape model based segmentation of medical images |
| <i>S. Sarkar and S. Chaudhuri</i> | 145 Evaluation and progression analysis of pulmonary tuberculosis from digital chest radiographs |
| <i>K. Kanazawa, Y. Kawata, N. Niki, H. Satoh, H. Ohmatsu, R. Kakinuma, M. Kaneko, N. Moriyama and K. Eguchi</i> | 157 Computer-aided diagnosis for pulmonary nodules based on helical CT images |
| <i>J. M. Pardo-López, D. Cabello, J. Heras and J. Couceiro</i> | 169 A Markov random field model for bony tissue classification |
| | 179 Announcements |

Volume 22 Number 3

1998

CONTENTS

- | | |
|---|--|
| <i>A. Hammoude</i> | 181 Endocardial border identification in two-dimensional echocardiographic images: review of methods |
| <i>M. Mazonakis, J. Damilakis and H. Varveris</i> | 195 Bladder and rectum volume estimations using CT and stereology |
| <i>A. Ghanei, H. Soltanain-Zadeh and J. P. Windham</i> | 203 Segmentation of the hippocampus from brain MRI using deformable contours |
| <i>M. Stuber, E. Nagel, S. E. Fischer, M. A. Spiegel, M. B. Scheidegger and P. Boesiger</i> | 217 Quantification of the local heartwall motion by magnetic resonance myocardial tagging |
| <i>M. Loughlin, I. Carlbom, C. Busch, T. Douglas, L. Egevad, H. Frimmel, M. Norberg, I. Sesterhenn and J. M. Frogge</i> | 229 Three-dimensional modeling of biopsy protocols for localized prostate cancer |

*T. Namimoto, S. Morishita,
R. Saitoh, J. Kudoh, Y. Yamashita
and M. Takahashi*

*D. J. Goodenough, J. R. Levy and
C. Kasales*

*K. Suetake, Y. Kurokawa, T. Uede,
H. Momota and K. Hashi*

R. N. Sener

239 The value of dynamic MR imaging for hypointensity lesions of the peripheral zone of the prostate

247 Development of phantoms for spiral CT

257 A case of abducens neurinoma mimicking acoustic neurinoma

263 Choroid plexus papilloma of the temporal horn associated with transtentorial herniation

265 Announcements

Volume 22 Number 4

1998

CONTENTS

*T. Heinonen, K. Visala, M. Blomqvist,
H. Eskola and H. Frey*

*B. Diallo, F. Dolidon, J.-M. Traversé
and B. Mazoyer*

*A. Herment, E. Mousseaux, P. Dumée
and A. Decesare*

*T. Namimoto, Y. Yamashita,
H. Yamamoto, Y. Abe, K. Mitsuzaki
and M. Takahashi*

*C. Badea, Z. Kolitsi and
N. Pallikarakis*

A. T. Montoya and J. Pereira

*J. Kivijärvi, T. Ojala, T. Kaukoranta,
A. Kuba, L. Nyúl and O. Nevalainen*

R. Nuri Sener

R. Nuri Sener

R. Nuri Sener

A. H. Karantanas

*A. Vade, C. Sajous, B. Anderson
and M. Challapalli*

R. Nuri Sener

267 3D visualization library for multimodal medical images

275 VoxeLine: a software program for 3D real-time visualization of biomedical images

291 Automatic detection of left ventricular borders on electron beam CT sequential cardiac images using an adaptive algorithm

301 High resolution breath-holding MR imaging of the abdomen with a phased-array multicore

309 A wavelet-based method for removal of out-of-plane structures in digital tomosynthesis

317 Testing the precision of stereotactic planning systems

323 A comparison of lossless compression methods for medical images

341 A flow artefact in the frontal horns of the lateral ventricles on MR images at 0.5 tesla

345 A ventriculi associated with holoprosencephaly

349 A patient with ectodermal dysplasia, Joubert's syndrome, and brain cysts

353 Amyotrophic lateral sclerosis: unilateral T_2 -shortening on MRI

357 Neonatal hepatic abscess

361 Osteochondroma of the thoracic spine: a dumbbell mass associated with spinal cord compression

Volume 22 Number 5**1998****CONTENTS***G. Dougherty**M. G. Fleming, C. Steger,
J. Zhang, J. Gao, A. B. Cagnetta,
I. Pollak and C. R. Dyer**M. C. Gilardi, G. Rizzo, A. Savi,
C. Landoni, V. Bettinardi,
C. Rossetti, G. Striano and
F. Fazio**C. Pachai, Y. M. Zhu, J. Grimaud,
M. Hermier, A. Dromigny-Badin,
A. Boudraa, G. Gimenez,
C. Confavreux and J. C. Froment**R. Nuri Sener**R. Nuri Sener**C. Asao, Y. Korogi, O. Shimomura,
M. Takahashi and T. Tsuru**O. Oyar, G. Kayalioglu and
U. Cagirci**K. Toda, Y. Yasunaga, S. Takemoto
and Y. Terada*

365 Computerized evaluation of mammographic image quality using phantom images

375 Techniques for a structural analysis of dermatoscopic imagery

391 Correlation of SPECT and PET cardiac images by a surface matching registration technique

399 A pyramidal approach for automatic segmentation of multiple sclerosis lesions in brain MRI

409 Cranial MR imaging findings in Waardenburg syndrome: anophthalmia, and hypothalamic hamartoma

413 A false lesion in the center of the pons on magnetic resonance images

417 MR findings of hypoxic damage of the bilateral striate cortices: a case report

421 Diaphragmatic crus lipoma: a case report

425 MR image and CT scan of a tuberculous abscess in the gluteus maximus muscle

Volume 22 Number 6**1998****CONTENTS***Y.-F. Wang, D. R. Uecker and
Y. Wang**Y. Kurihara, Y. Okuhara, Y. Narita,
Y. Kitazoe, A. Sawada, S. Yoshida
and H. Geshi**R. Tello, R. F. Munden, S. Hooton,
K. Kandarpa and R. Pugatch**S. L. Hartmann, B. M. Dawant,
M. H. Parks, H. Schlack and
P. R. Martin**M. S. Brown, L. S. Wilson,
B. D. Doust, R. W. Gill and
C. Sun*

429 A new framework for vision-enabled and robotically assisted minimally invasive surgery

439 Fast image accessing based on an analysis of the picture archiving and communications system in Kochi Medical School

447 Value of spiral CT in hemodynamically stable patients following blunt chest trauma

453 Image-guided MR spectroscopy volume of interest localization for longitudinal studies

463 Knowledge-based method for segmentation and analysis of lung boundaries in chest X-ray images

*S. Eldar, E. Sabo, A. Cohen,
I. Misselevich, O. Cohen, J. Kelner,
C. Mor, J. Shvero, R. Feinmesser, J. Shibi,
M. Shabtai, J. Bejar and J. H. Boss*

- 479 Computer-assisted image analysis of small cell lymphoma of the thyroid gland. Comparison of nuclear parameters of small lymphocytes in lymphomas and Hashimoto's thyroiditis